

03-26-04



EXPRESS MAIL NO.EV396740335US

PATENT APPLICATION  
Docket No: 13768.500

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Elena A. Kharitidi et al.

Serial No.: 10/790,423

Filed: March 1, 2004

For: DETERMINING XML SCHEMA TYPE  
EQUIVALENCE

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10

I hereby certify that the following documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Submitted this 25 day of March 2004

- Information Disclosure Statement (2 pgs.)
- Form PTO-1449 Listing Seven (7) References (2 pgs.)
- Copies of the Seven (7) Listed References
- Transmittal Letter (2 pgs.)
- Postcard

Respectfully submitted,

JENS C. JENKINS  
Registration No. 44,803  
Attorneys for Applicant

Customer No. 022913

X Copies of the seven (7) references listed on the Form PTO-1449.

B. Additional Materials Required Due to Timing of Filing of Information Disclosure Statement

The transmitted Information Disclosure Statement is being filed within three (3) months following the filing date or the mailing of a first Office Action. Accordingly, no materials other than those listed above are enclosed.

C. Fees

The transmitted Information Disclosure Statement is being filed within three (3) months following the filing date or the mailing of a first Office Action. Accordingly, no fee is due.

The Commissioner is hereby authorized to charge payment of or any deficiency in the following fees associated with this communication, or to credit any overpayment thereof, to Deposit Account No. 23-3178. A duplicate copy of this sheet is enclosed.

Dated this 25 day of March 2004.

Respectfully submitted,



Jens C. Jenkins  
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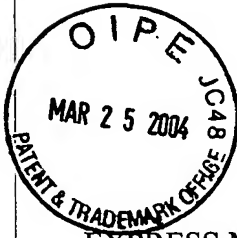


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EXPRESS MAIL LABEL NO. EV396740335US

PATENT APPLICATION

Docket No: 13768.500

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Elena A. Kharitidi et al.

Serial No.:

10/790,423

Filed:

March 1, 2004

For:

DETERMINING XML SCHEMA  
TYPES

### TRANSMITTAL FOR INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing and pursuant to 37 C.F.R. § 1.97 is an Information Disclosure Statement, which includes the following statements, if any, required variously by 37 C.F.R. § 1.98:

A. Additional Materials Required Due to Content of Information Disclosure Statement

Transmitted are the following documents in addition to the Information Disclosure Statement as required variously under 37 C.F.R. § 1.98:

X Form PTO-1449 listing seven (7) references submitted for consideration.

X Copies of the seven (7) references listed on the Form PTO-1449.

B. Additional Materials Required Due to Timing of Filing of Information Disclosure Statement

The transmitted Information Disclosure Statement is being filed within three (3) months following the filing date or the mailing of a first Office Action. Accordingly, no materials other than those listed above are enclosed.

C. Fees

The transmitted Information Disclosure Statement is being filed within three (3) months following the filing date or the mailing of a first Office Action. Accordingly, no fee is due.

The Commissioner is hereby authorized to charge payment of or any deficiency in the following fees associated with this communication, or to credit any overpayment thereof, to Deposit Account No. 23-3178. A duplicate copy of this sheet is enclosed.

Dated this 25 day of March 2004.

Respectfully submitted,



Jens C. Jenkins  
Attorney for Applicant  
Registration No. 44,803

Customer No. 022913



Docket No: 13768.500

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Elena A. Kharitidi et al.

Serial No.: 10/790,423

Filed: March 1, 2004

For: DETERMINING XML SCHEMA TYPE EQUIVALENCE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof is also enclosed.

In accordance with 37 C.F.R. § 1.98(c), all English translations within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) of each non-English reference, if any, are also enclosed.

Since all listed references are either in the English language or are accompanied by a translation into English, no concise explanation of relevance is required under 37 C.F.R. § 1.98(a)(3).

This Information Disclosure Statement is being filed within three (3) months of the filing date of the application therefore, no fee is due.

DATED this \_\_\_\_\_ day of March 2004.

Respectfully submitted,

RICK D. NYDEGGER  
Registration No. 28,651  
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Registration No. 44,803

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JCJ:cm  
CM0000003503V001

Applicant: Elena A. Kharitidi et al.  
Serial No.: 10/790,423  
Filing Date: March 1, 2004  
For: DETERMINING XML SCHEMA TYPES

Att'y Docket No. 13768.500

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTOther Documents

(including author, title, pertinent pages, etc.)

Examiner

Initial\*

- \_\_\_\_\_ 1 Harold Boley, "The Rule Markup Language: RDF-XML Data Model, XML Schema Hierarchy, and XSL Transformations", Web Knowledge Management and Decision Support, 14<sup>th</sup> International Conference on Applications of Prolog, October 2001, pp. 5-22.
- \_\_\_\_\_ 2 Boris Chidlovskii, "Schema Extraction from XML Collections", Proceedings of the Second ACM/IEEE-CS Joint Conference on Digital Libraries, July 2002, pp. 291-292.
- \_\_\_\_\_ 3 Samuel Robert Collins et al., "XML Schema Mappings for Heterogeneous Database Access", Information and Software Technology, Vol. 44, no. 4, March 31, 2002, pp. 251-257.
- \_\_\_\_\_ 4 Hong-Hai Do, et al., "Comparison of Schema Matching Evaluations", NODE 2002 Web- and Database-Related Workshops, Revised Papers, Vol. 2593, October 2002, pp. 221-237.
- \_\_\_\_\_ 5 Sun Hongwei et al., "Mapping XML-Schema to Relational Schema", EurAsia-ICT 2002: Information and Communication Technology, First EurAsian Conference, Proceedings, October 2002, pp. 322-329.
- \_\_\_\_\_ 6 Murali Mani et al., "XML to Relational Conversion Using Theory of Regular Tree Grammars", Efficiency and Effectiveness and XML Tools and Techniques and Data Integration over the Web (Lecture Notes in Computer Science Vol. 2590), December 2002, pp. 81-103.
- \_\_\_\_\_ 7 Yan-Feng Zhang et al., "Semantic Integration of XML Schema", Proceedings of 2002 International Conference on Machine Learning and Cibernetics, Vol.2, November 2002, pp. 1058-61.

Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Elena A. Kharitidi et al.  
 Serial No.: 10/790,423  
 Filing Date: March 1, 2004  
 For: DETERMINING XML SCHEMA TYPES

Att'y Docket No. 13768.500

### References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

CM0000003501V001

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Examiner:

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Date Considered:

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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